

## DESCRIPTION OF TABLES AND CHARTS.

Table I gives the data ordinarily needed for climatological studies for about 158 Weather Bureau stations, making simultaneous observations at 8 a. m. and 8 p. m., daily, 75th meridian time, and for about 41 others making only one observation. The altitudes of the instruments above ground are also given.

Table II gives a record of precipitation, the intensity of which at some period of the storm's continuance equaled or exceeded the following rates:

Duration (minutes)	5	10	15	20	25	30	35	40	45	50	60
Rates per hour (inches)	3.00	1.80	1.40	1.20	1.08	1.00	0.94	0.90	0.87	0.84	0.80

It is impracticable to make this table sufficiently wide to accommodate on one line the record of accumulated falls that continue at an excessive rate for several hours. In this case the record is broken at the end of each 50 minutes, the accumulated amounts being recorded on successive lines until the excessive rate ends.

In cases where no storm of sufficient intensity to entitle it to a place in the full table has occurred, the greatest precipitation of any single storm has been given, also the greatest hourly fall during that storm.

The tipping-bucket mechanism is *dismounted* and removed when there is danger of snow or water freezing in the same. Table II records this condition by entering an asterisk (\*).

Table III gives, for about 30 stations of the Canadian Meteorological Service, the means of pressure and temperature, total precipitation and depth of snowfall, and the respective departures from normal values except in the case of snowfall.

Chart I.—Hydrographs for several of the principal rivers of the United States.

Chart II.—Tracks of centers of high area; and

Chart III.—Tracks of centers of low areas. The roman numerals show the chronological order of the centers. The figures within the circles show the days of the month; the letters *a* and *p* indicate, respectively, the observations at 8 a. m. and 8 p. m., seventy-fifth meridian time. Within each circle is also given (Chart II) the last three figures of the highest barometric reading and (Chart III) the lowest reading reported at or near the center at that time, and in both cases as reduced to sea level and standard gravity.

Chart IV.—Temperature departures. This chart presents the departures of the monthly mean temperatures from the monthly normals. The normals used in computing the departures were computed for a period of 33 years (1873 to 1905) and are published in Weather Bureau Bulletin "R," Washington, 1908. Stations whose records were too short to justify the preparation of normals in 1908 have been provided with normals as adequate records became available, and all have been reduced to the 33-year interval 1873-1905. The shaded portions of the chart indicate areas of positive departures and unshaded portions indicate areas of negative departures. Generalized lines connect places having approximately equal departures of like sign. This chart of monthly

temperature departures in the United States was first published in the MONTHLY WEATHER REVIEW for July, 1909.

Chart V.—Total precipitation. The scale of shades showing the depth is given on the chart. Where the monthly amounts are too small to justify shading, and over sections of the country where stations are too widely separated or the topography is too diversified to warrant reasonable accuracy in shading, the actual depths are given for a limited number of representative stations. Amounts less than 0.005 inch are indicated by the letter T, and no precipitation by 0.

Chart VI.—Percentage of clear sky between sunrise and sunset. The average cloudiness at each Weather Bureau station is determined by numerous personal observations between sunrise and sunset. The difference between the observed cloudiness and 100 is assumed to represent the percentage of clear sky, and the values thus obtained are the basis of this chart. The chart does not relate to the nighttime.

Chart VII.—Isobars and isotherms at sea level and prevailing wind directions. The pressures have been reduced to sea level and standard gravity by the method described by Prof. Frank H. Bigelow on pages 13-16 of the REVIEW for January, 1902. The pressures have also been reduced to the mean of the 24 hours by the application of a suitable correction to the mean of the 8 a. m. and 8 p. m. readings at stations taking two observations daily, and to the 8 a. m. or the 8 p. m. observation, respectively, at stations taking but a single observation. The diurnal corrections so applied will be found in the Annual Report of the Chief of the Weather Bureau, 1900-1901, volume 2, Table 27, pages 140-164.

The isotherms on the sea-level plane have been constructed by means of the data summarized in chapter 8 of volume 2 of the annual report just mentioned. The correction,  $t_0 - t$ , or temperature on the sea-level plane minus the station temperature as given by Table 48 of that report, is added to the observed surface temperature to obtain the adopted sea-level temperature.

The prevailing wind directions are determined from hourly observations at the great majority of the stations; a few stations having no self-recording wind-direction apparatus determine the prevailing direction from the daily or twice-daily observations only.

Chart VIII.—Total snowfall. This is based on the reports from regular and cooperative observers and shows the depth in inches and tenths of the snowfall during the month. In general, the depth is shown by lines inclosing areas of equal snowfall, but in special cases figures are also given. Chart VIII is published only when the general snow cover is sufficiently extensive to justify its preparation.

Chart IX.—Average values of pressure, temperature, and prevailing wind direction, and storm tracks over the North Atlantic Ocean, for the corresponding month of last year.

[Charts XLIII-112 to 114 are figures illustrating the New Orleans hurricane of Sept. 29-30, 1915.]

TABLE I.—Climatological data for United States Weather Bureau stations, September, 1915.

Districts and stations.	Elevation of instruments.			Pressure.			Temperature of the air.												Precipitation.			Wind.			Maximum velocity.	Average cloudiness, tenths.	Total snowfall.			
	Barometer above sea level, feet.	Thermometer above ground.	Anemometer above ground.	Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Mean max + mean min + mean max + mean min + 2°.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew point.	Mean relative humidity, per cent.	Total.	Departure from normal.	Days with 0.01 or more.	Total movement.	Favorable direction.	Miles per hour.	Date.					
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F.	%	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.			
New England.	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F.	%	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.		
Eastport.....	76	67	85	29.89	29.97	-0.06	57.0	+ 1.8	80	11	64	38	27	50	26	51	47	76	1.21	- 1.8	7	6,890	s.	43	s.	26	11	6	13	5.7
Greenville.....	1,070	6					63.9	+ 3.2								56	51	74	0.62	- 2.6	3	6,726	s.	56	nw.	27	18	0	6	3.8
Portland, Me.....	103	82	117	29.92	30.03	- .01	61.4	+ 1.8	89	17	70	40	28	53	28	1.21	- 2.0	3	3,812	nw.	29	nw.	28	20	4	6	3.5			
Concord.....	288	70	79	29.75	30.06	- .00	66.4	+ 4.3	92	15	74	39	23	52	36	0.97	- 2.4	9	7,352	s.	50	nw.	26	11	13	6	4.8			
Burlington.....	404	11	48	29.62	30.05	- .01	62.6	+ 3.7	82	13	73	34	30	52	31	41	54	52	1.36	- 1.4	10	5,059	s.	39	sw.	26	14	8	12	5.7
Northfield.....	878	12	60	29.13	30.07	+ .01	66.8	+ 4.1	89	15	71	44	28	59	33	60	57	74	0.89	- 2.5	2	6,633	sw.	59	sw.	26	15	12	3	4.0
Boston.....	125	115	188	29.91	30.05	- .02	65.6	+ 2.2	82	14	71	46	28	59	18	62	60	86	1.35	- 1.6	5	11,336	s.	60	nw.	26	15	5	9	4.2
Nantucket.....	12	14	90	30.04	30.05	- .03	65.0	+ 2.2	82	14	71	46	28	60	17	62	60	86	1.77	- 2.3	6	8,222	nw.	62	nw.	26	18	7	5	3.5
Block Island.....	26	11	46	30.03	30.06	- .02	65.4	+ 1.3	89	10	74	35	28	58	30	60	57	76	1.29	- 2.2	3	4,860	nw.	37	nw.	26	10	8	7	4.7
Narragansett Pier.....	100	215	251	29.88	30.05	- .02	66.2	+ 3.0	92	16	75	41	28	57	27	60	56	75	0.88	- 2.3	6	8,222	nw.	62	nw.	26	16	7	7	4.2
Providence.....	159	122	140	29.89	30.07	- .00	67.4	+ 5.7	92	16	77	42	28	58	30	62	58	78	1.35	- 2.4	6	6,031	nw.	34	sw.	26	16	7	7	4.2
Hartford.....	106	117	153	29.95	30.06	- .01	68.0	+ 4.1	91	16	77	43	28	59	28	62	58	78	1.35	- 2.4	6	6,031	nw.	34	sw.	26	16	7	7	4.2
New Haven.....							69.5	+ 3.0																					4.4	
Middle Atlantic States.							70.5	+ 3.0																					4.4	
Albany.....	97	102	115	29.96	30.06	- .01	66.9	+ 4.6	92	15	76	41	30	58	29	60	57	77	2.17	- 1.0	9	4,926	s.	33	nw.	26	15	12	3	3.7
Binghamton.....	571	10	59	29.17	30.09	+ .01	65.8	+ 5.3	92	15	76	35	23	55	33	51	57	71	1.85	- 0.9	10	2,904	nw.	25	nw.	26	13	7	10	5.0
New York.....	314	414	454	29.74	30.07	- .01	60.0	+ 2.5	90	9	77	44	28	61	23	61	57	71	2.52	- 1.1	6	10,756	s.	72	nw.	26	11	13	6	4.8
Harrisburg.....	374	94	104	29.70	30.10	+ .02	68.8	+ 3.9	91	15	78	42	29	60	27	62	59	76	3.10	+ 0.2	8	3,718	s.	28	sw.	26	13	10	7	4.3
Philadelphia.....	117	123	190	29.97	30.09	+ .01	71.4	+ 4.0	92	9	80	47	28	63	27	64	61	75	0.46	- 2.9	6	6,205	sw.	34	nw.	26	12	10	9	4.8
Reading.....	325	81	98	29.75	30.10	- .01	69.4	+ 3.6	92	14	79	42	28	63	32	62	58	76	2.26	- 1.4	8	3,983	sw.	25	sw.	21	12	8	10	5.1
Soratton.....	805	111	119	29.24	30.10	+ .03	85.8	+ 3.6	92	15	76	36	23	55	33	60	56	77	2.91	- 0.0	11	3,716	sw.	32	sw.	26	11	11	9	5.0
Atlantic City.....	52	37	48	30.03	30.09	+ .02	69.6	+ 2.0	92	9	77	41	28	63	29	64	62	80	0.60	- 2.4	2	5,282	sw.	24	s.	21	18	3	9	4.2
Cape May.....	18	13	49	30.00	30.11	+ .01	70.0	+ 1.0	92	9	77	48	28	63	23	64	62	82	1.02	- 2.3	4	5,309	nw.	28	nw.	21	15	10	5	4.0
Sandy Hook.....	22	10	37	30.05	30.07	- .00	69.5	+ 2.0	92	9	76	48	28	63	23	64	62	82	1.02	- 2.3	10	5,07	nw.	31	nw.	26	15	10	5	4.0
Trenton.....	190	159	183	29.87	30.07	- .01	69.4	+ 2.0	91	9	79	46	29	60	29	62	66	76	0.62	- 3.0	8	6,909	nw.	37	nw.	21	11	11	7	4.7
Baltimore.....	123	100	113	29.97	30.10	+ .02	71.5	+ 2.9	93	9	80	46	29	62	25	64	60	71	2.30	- 1.6	7	4,382	n.	28	n.	27	17	8	5	3.9
Washington.....	112	63	85	29.97	30.09	+ .01	71.0	+ 2.9	93	12	81	43	30	61	31	63	66	76	1.39	- 2.2	7	3,415	s.	28	sw.	21	15	10	5	3.6
Lynchburg.....	631	153	188	29.36	30.09	+ .01	70.6	+ 2.2	93	12	81	41	29	60	22	64	61	81	5.28	- 0.4	7	3,577	n.	26	w.	21	14	7	9	4.9
Norfolk.....	91	170	203	30.00	30.10	+ .04	74.2	+ 2.5	92	14	96	13	82	45	23	63	62	73	1.76	- 2.3	7	7,524	n.	36	nw.	19	14	9	7	4.5
Richmond.....	144	11	52	29.95	30.10	+ .03	72.4	+ 1.6	93	13	82	45	23	63	28	65	62	73	1.99	- 1.4	9	4,285	n.	32	sw.	26	16	5	9	4.4
Wytheville.....	2,203	40	47	27.77	30.10	+ .03	65.0	+ 2.0	89	11	76	35	23	53	33	60	58	87	5.73	+ 2.4	14	2,422	e.	19	nw.	21	11	12	7	4.8
South Atlantic States.							75.9	+ 2.8																					4.4	
Asheville.....	2,255	70	84	27.79	30.10	+ .03	67.4	+ 2.4	86	10	78	40	23	57	33	61	59	83	4.09	+ 1.0	11	4,370	s.	44	e.	30	12	14	4	4.3
Charlotte.....	713	153	161	29.26	30.08	+ .01	73.2	+ 2.5	93	10	82	48	23	64	27	65	62	74	2.37	- 0.8	6	6,281	n.	31	sw.	29	10	16	4	5.1
Batteries.....	11	12	50	30.06	30.07	+ .01	77.1	+ 2.4	91	9	82	50	23	62	29	60	68	70	1.26	- 4.1	9	8,048	s.	41	n.	2	12	14	4	4.4
Manteo.....	12	4	46				74.5	+ 2.0	92	9	83	53	23	66	30	66	63	73	2.51	- 0.8	11	4,517	n.	24	w.	26	12	10	8	4.6
Raleigh.....	376	103	110	29.69	30.08	+ .01	73.8	+ 3.2	94	11	82	54	23	65	30	66	63	73	2.51	- 0.8	11	4,517	n.	24	sw.	28	12	12	4	4.7
Wilmington.....	78	81	91	29.99	30.07	+ .01	70.0	+ 2.9	96	10	84	54	24	68	23	70	68	84	2.71	- 2.6	10	4,931	n.	28	n.	15	15	11	4	3.8
Charleston.....	48	11	32	30.00	30.06	+ .02	70.2	+ 3.0	95	10	85	53	23	63	23	73	71	80	2.07	- 3.4	9	7,357	e.	29	e.	15	15	11	4	3.8
Columbia.....	311	41	57	29.70	30.07	+ .02	76.8	+ 3.1	93	11	87	55	23	67	23	70	70	85	0.98	- 2.5	6	4,372	ne.	26	ne.	22	18	7	9	4.8
Augusta.....	180	89	97	29.57	30.06	+ .01	77.2	+ 2.8	97	11	86	55	23	68	23	72	70	87	4.91	- 1.2	6	3,609	e.	24	n.	14	13	9	8	4.8
Savannah.....	65	150	194	29.98	30.04	+ .01	78.5	+ 3.1	96	11	86	56	23	69	24	60	65	72	4.91	- 2.0	5	8,48								

TABLE I.—Climatological data for United States Weather Bureau stations, September, 1915—Continued.

Districts and stations.	Elevation of instruments.		Pressure.				Temperature of the air.						Precipitation.				Wind.				Total snowfall. Snow on ground at end of month.						
	Barometer above sea level, feet.	Thermometer above ground.	Anemometer above ground.	Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Mean max+mean min.	Maximum.	Departure from normal.	Mean maximum.	Minimum.	Mean minimum.	Total.	Inches.	Miles.	Total movement.	Prevailing direction.	Maximum velocity.									
	Fl.	Fl.	Fl.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.	°F.	°C.	In.	Miles.	Fl.	Clear days.	Partly cloudy days.	Cloudy days.								
<i>Ohio Valley and Tennessee.</i>																				0-10 4.5							
Chattanooga.....	762	189	213	29.27	30.07	+0.01	73.4	+ 2.2	92	12	23	61	26	78	6.91	+ 3.7	3,716	w.	27	13	12	4-10 4.5					
Knoxville.....	936	93	100	29.03	30.06	-0.00	72.8	+ 3.4	91	13	23	63	29	76	4.04	+ 1.1	2,748	ne.	18	14	6	4-10 3.0					
Memphis.....	339	76	97	24.63	30.05	+ 0.2	70.9	+ 3.2	93	13	23	63	29	76	4.04	+ 1.2	4,173	sw.	36	10	10	4-10 3.0					
Nashville.....	546	168	181	29.48	30.06	-0.00	73.8	+ 2.5	93	13	23	63	29	76	4.04	+ 1.0	5,045	ne.	37	16	10	4-10 3.0					
Lexington.....	984	193	236	29.02	30.08	+ 0.01	69.5	+ 1.6	91	13	23	61	28	78	3.18	+ 1.3	8,318	sw.	39	15	10	5-10 4.0					
Louisville.....	525	219	255	29.50	30.08	+ 0.02	71.7	+ 1.8	92	13	23	62	28	78	3.18	+ 1.3	7,152	s.	38	16	11	5-10 4.0					
Evansville.....	431	72	89	28.58	30.04	-0.03	72.6	+ 1.4	91	13	23	61	28	78	2.98	+ 0.3	7,400	s.	30	14	9	3-10 4.1					
Indianapolis.....	822	194	236	29.19	30.07	+ 0.01	68.1	+ 1.4	91	13	23	61	28	78	2.98	+ 0.3	6,081	s.	48	11	11	5-10 5.3					
Terre Haute.....	575	96	129	29.43	30.04	-0.00	69.6	+ 1.4	91	13	23	61	28	78	2.98	+ 0.3	7,430	s.	14	11	11	5-10 5.8					
Cincinnati.....	628	11	51	29.43	30.07	-0.00	68.7	+ 1.6	91	13	23	61	28	78	2.98	+ 0.3	3,364	s.	26	11	9	1-10 5.1					
Columbus.....	824	173	222	29.23	30.09	+ 0.02	68.1	+ 2.1	91	13	23	61	28	78	2.98	+ 0.3	6,582	s.	32	13	8	5-10 5.3					
Dayton.....	899	181	216	29.12	30.06	-0.00	68.8	+ 2.7	91	13	23	60	28	78	2.98	+ 0.3	6,205	nc.	34	13	10	5-10 4.9					
Pittsburgh.....	842	373	410	29.20	30.09	+ 0.01	68.8	+ 2.7	91	13	23	60	28	78	2.98	+ 0.3	6,856	sw.	48	14	11	5-10 4.7					
Elkins.....	1,940	41	50	28.98	30.12	+ 0.01	65.8	+ 3.9	91	13	23	60	28	78	2.98	+ 0.3	1,983	w.	18	14	9	5-10 5.7					
Parkersburg.....	638	77	84	29.45	30.10	+ 0.02	69.4	+ 3.3	91	13	23	60	28	78	2.98	+ 0.3	2,888	se.	23	17	6	5-10 3.9					
<i>Lower Lake region.</i>							65.3	+ 2.2											4-9								
Buffalo.....	767	247	280	29.25	30.07	+ 0.01	64.6	+ 1.7	87	14	72	39	25	60	57	78	1.35	- 1.8	9,600	sw.	72	13	7	10-10 4.8			
Canton.....	448	19	61	29.58	30.05	-0.00	61.4	+ 2.1	88	14	72	39	30	51	34	78	3.32	- 1.5	6,402	sw.	46	19	11	5-10 3.7			
Oswego.....	335	76	91	29.69	30.06	-0.00	64.4	+ 1.7	90	14	72	42	30	51	59	56	78	3.44	+ 0.6	7,081	s.	35	10	11	5-10 5.4		
Rochester.....	523	97	113	29.52	30.09	+ 0.03	65.4	+ 3.5	91	14	75	39	28	58	55	74	2.6	- 0.1	4,984	sw.	36	10	13	5-10 6.6			
Syracuse.....	597	97	113	29.45	30.10	+ 0.03	64.7	+ 3.1	91	14	75	39	30	59	56	74	5.11	+ 2.3	6,983	s.	48	11	11	5-10 5.6			
Erie.....	714	130	166	29.31	30.07	-0.01	66.4	+ 2.5	91	14	74	41	26	61	58	78	4.19	+ 0.7	8,462	s.	48	17	17	5-10 6.0			
Cleveland.....	762	180	201	29.27	30.08	+ 0.02	67.0	+ 2.7	91	14	74	43	26	61	59	78	4.23	+ 1.0	8,801	w.	41	11	11	5-10 4.8			
Sandusky.....	629	62	103	29.34	30.07	+ 0.01	67.3	+ 2.0	91	14	75	45	26	61	59	78	5.11	+ 2.4	10,734	sw.	36	11	8	5-10 5.0			
Toledo.....	628	208	243	29.40	30.08	+ 0.02	66.3	+ 2.2	91	14	74	45	26	60	58	78	4.55	+ 3.1	9,732	sw.	52	10	14	5-10 4.5			
Fort Wayne.....	856	113	121	29.10	30.05	-0.00	65.8	+ 0.3	91	14	75	37	26	61	59	78	3.70	-	6,637	sw.	37	10	10	5-10 5.0			
Detroit.....	730	218	245	29.28	30.07	+ 0.01	60.7	+ 1.5	89	14	73	37	26	60	57	78	4.47	+ 2.0	11,7492	sw.	42	nw.	10	9,13	8,48		
<i>Upper Lake region.</i>							60.7	+ 1.5											5.7								
Alpena.....	609	13	92	29.40	30.07	+ 0.04	58.9	+ 1.6	89	14	67	33	30	50	30	54	52	82	2.37	- 1.1	15,7410	nw.	40	nw.	25	6,15	9,5.9
Escanaba.....	612	54	60	29.37	30.03	+ 0.02	57.7	+ 0.7	87	14	65	34	29	50	24	53	51	82	1.88	- 1.7	13,6273	s.	39	n.	26	11,6	13,5.5
Grand Haven.....	632	54	92	29.37	30.04	-0.00	64.4	+ 2.1	90	14	72	42	30	51	52	58	56	78	3.05	+ 4.9	13,267	s.	38	n.	20	11,6	13,5.3
Grand Rapids.....	707	70	87	29.29	30.06	+ 0.01	64.4	+ 2.6	90	14	71	35	28	56	52	74	52	78	4.44	+ 0.6	7,081	s.	35	nw.	12	8,9	14,5.8
Houghton.....	684	72	72	29.27	30.00	-0.00	57.2	+ 1.1	88	14	74	41	26	56	50	79	5.11	+ 2.3	13,6983	s.	36	w.	26	8,11	11,5.6		
Lansing.....	878	11	62	29.11	30.04	-0.00	63.2	+ 1.9	89	14	74	33	25	57	55	78	4.30	+ 0.8	4,580	s.	48	nw.	20	9,11	11,5.6		
Ludington.....	837	60	66	29.32	30.01	-0.05	60.9	+ 1.9	88	14	74	33	25	57	55	78	4.30	+ 0.7	12,6462	s.	48	sw.	23	8,11	11,5.6		
Marquette.....	734	77	111	29.24	30.05	+ 0.05	57.5	+ 0.8	87	14	71	35	26	56	50	77	4.23	- 0.1	12,6362	e.	48	w.	23	9,11	11,5.3		
Port Huron.....	638	70	126	29.33	30.06	-0.00	62.8	+ 2.3	87	14	71	35	26	56	50	78	4.23	- 0.1	12,7242	sw.	34	nw.	11	9,17	4,47		
Saginaw.....	641	48	82	29.30	30.07	+ 0.01	62.8	+ 2.3	87	14	71	35	26	56	50	78	4.55	+ 1.4	13,7585	s.	28	s.	14	8,7	15,6.1		
Sault Ste. Marie.....	614	11	61	29.30	30.06	+ 0.04	56.0	+ 1.7	87	14	66	30	26	56	50	78	4.55	+ 1.7	5,105	e.	40	nw.	20	7,10	13,6.2		
Chicago.....	823	149	210	29.10	30.04	-0.00	67.2	+ 2.5	86	14	73	36	26	56	50	78	4.55	+ 1.4	14,8346	nc.	41	sw.	10	10,12	5,5.9		
Green Bay.....	617	109	144	29.36	30.03	-0.00	61.1	+ 2.7	86	14	71	36	26	56	50	78	4.55	+ 0.5	14,7268	s.	54	sw.	10	9,16	12,5.8		
Milwaukee.....	681	119	133	29.31	30.04	+ 0.01	64.2	+ 2.7	86	14	71	36	26	56	50	78	4.55	+ 2.0	14,7222	sw.	34	nc.	10	9,10	11,5.8		
Duluth.....	1,133	11	47	28.73	30.01	+ 0.03	55.0	+ 1.1	83	14	64	36	15	47	28	50	48	5.28	- 1.3	12,9233	sw.	50	nw.	25	11,10	9,5.2	
<i>North Dakota.</i>							55.3	- 1.9											5.8								
Moorhead.....	940	8	57	28.95	29.97	+ 0.01	57.8	+ 1.2	88	2	69	35	15	47	37	52	49	82	1.34	- 1.0	9,5993	s.	30	nw.	20	16,4	10,4-2
Bismarck.....	1,673	8	57	28.18	29.97	-0.01	56.0	- 1.1	96	2	66	33	26	45	36	43	44	77	0.68	+ 0.5	6,3389	nw.	35	w.	24	12,9	9,5.1
Devils Lake.....	1,482	11	44	28.36	29.93	-0.01	55.0	- 0.6	96	2	66	33	26	45	36	43	44	77	3.11	+ 1.7	15,7339	w.	37	nw.	19	6,17	6,5.5
Williston.....	1,672	40	47	27.96	29.95	+ 0.02	52.3	- 7.2	94	1	62	26	13	42	43	46	42	74	1.60	+ 0.7	10,4,560	nw.	34	nw.	16	1,13	16,7.3
<i>Upper Mississippi Valley.</i>							66.4	+ 1.5											5.4								
Minneapolis.....	918	10	208	29.00	29.98	-0.00	60.6	-	87	6	69	40	27	52	26	-	-	2,57	- 1.1	13,7824	se.	4					

TABLE I.—Climatological data for United States Weather Bureau stations, September, 1915—Continued.

TABLE II.—Accumulated amounts of precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.80 in 1 hour, during September, 1915, at all stations furnished with self-registering雨量计.

Stations.	Date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Abilene, Tex.	13-15			1.86																0.40	
Albany, N. Y.	21			1.00															*		
Alpena, Mich.	16			1.07															38		
Amarillo, Tex.	25	1:45 p. m.	6:10 p. m.	0.98	3:22 p. m.	3:43 p. m.	0.35	0.06	0.19	0.32	0.45	0.48									
Anniston, Ala.	4-5	7:13 a. m.	6:44 a. m.	2.44	6:55 p. m.	7:32 p. m.	1.31	.07	.16	.21	.27	.37	.49	.70	.72						
Asheville, N. C.	21			0.55															30		
Atlanta, Ga.	13	4:23 p. m.	5:10 p. m.	0.70	4:39 p. m.	4:54 p. m.	.03		.16	.39	.67										
Atlantic City, N. J.	19			0.36															32		
Augusta, Ga.	4	9:35 p. m.	D.N. p. m.	1.47	10:46 p. m.	11:21 p. m.	.07	.08	.19	.33	.60	.97	1.19	1.28	1.37						
Baker, Oreg.	22	10:15 a. m.	1:00 p. m.	0.81	11:13 a. m.	11:31 a. m.	.07	.14	.25	.31	.32	.39	.51	.55	.64	.68				.02	
Baltimore, Md.	12			0.08																	
Bentonville, Ark.	18	9:45 p. m.	11:55 p. m.	0.78	10:04 p. m.	10:34 p. m.	.01	.18	.28	.32	.38	.47	.55								
Binghamton, N. Y.	17	11:40 a. m.	1:15 p. m.	1.27	11:48 a. m.	12:13 p. m.	.01	.23	.58	.79	1.11	1.23									
Birmingham, Ala.	19	3:17 p. m.	3:45 p. m.	0.60	1:53 p. m.	2:13 p. m.	.01	.17	.28	.42	.53										
Bismarck, N. Dak.	29-31	6:20 p. m.	D. N. a. m.	2.91	10:38 a. m.	11:17 a. m.	2.00	.07	.14	.21	.33	.44	.52	.64	.79	.86	.89	.91	1.11	1.19	
Block Island, R. I.	21			0.44															20		
Boise, Idaho.	1			0.66															39		
Boston, Mass.	21			0.59															45		
Buffalo, N. Y.	6			0.39															30		
Burlington, Vt.	21			0.53															30		
Cairo, Ill.	20	9:15 a. m.	1:30 p. m.	1.68	11:32 a. m.	11:44 a. m.	.42	.21	.31	.40	.51	.64	.68								
Canton, N. Y.	8			0.25															23		
Charles City, Iowa.				0.90															63		
Charleston, S. C.	21			0.58															58		
Charlotte, N. C.	4	5:35 p. m.	6:38 p. m.	0.43	5:37 p. m.	5:53 p. m.	.01	.11	.26	.37	.41										
Chattanooga, Tenn.	4-5	4:14 p. m.	4:22 a. m.	2.15	11:51 p. m.	12:45 a. m.	1.04	.07	.24	.43	.50	.59	.63	.67	.71	.81	.83	.90			
Cheyenne, Wyo.	25		3:08 a. m.	4.07	3:25 p. m.	4:04 p. m.	2.54	.10	.20	.28	.37	.56	.64	.70	.78				30		
Chicago, Ill.	10	1:24 p. m.	3:28 p. m.	0.53	1:41 p. m.	1:54 p. m.	.01	.21	.32	.37											
Cincinnati, Ohio.	7	4:30 p. m.	8:25 p. m.	0.72	7:52 p. m.	8:12 p. m.	.25	.16	.33	.39	.45										
Cleveland, Ohio.	15	5:31 p. m.	7:10 p. m.	0.78	5:33 p. m.	5:55 p. m.	.01	.43	.45	.55	.61	.73									
Columbia, Mo.	8-9	3:08 p. m.	6:00 p. m.	1.02	7:03 p. m.	8:01 p. m.	.02	.09	.18	.25	.46	.52	.55	.63							
Columbia, S. C.	4		7:14 a. m.	1.38	7:31 a. m.	7:58 a. m.	.03	.20	.51	.73	1.05								19		
Columbus, Ohio.	17	2:30 p. m.	6:15 p. m.	0.69	2:51 p. m.	3:12 p. m.	.06	.06	.16	.26	.40	.47									
Concord, N. H.	17	3:28 p. m.	4:31 p. m.	0.53	3:31 p. m.	3:51 p. m.	T	.25	.47	.52											
Concordia, Kans.	17-18	10:06 p. m.	1:15 a. m.	1.82	11:04 p. m.	11:36 p. m.	.12	.22	.47	.57	.97										
Corpus Christi, Tex.	22	12:02 a. m.	10:32 a. m.	6.85	8:32 a. m.	9:12 a. m.	1.52	.08	.19	.22	.45	.82	.90	.93	1.13	1.39	1.58	2.15	2.50		
Davenport, Iowa.	10	10:55 a. m.	12:35 p. m.	0.62	11:00 a. m.	9:42 a. m.	5.94	.22	.55	.77	.85										
Dayton, Ohio.	9	4:45 p. m.	8:45 p. m.	0.82	4:50 p. m.	5:14 p. m.	.02	.03	.18	.25	.35	.46	.51	.61					50		
Del Rio, Tex.	22-24	4:22 p. m.	7:01 p. m.	1.12	4:40 p. m.	5:05 p. m.	.01	.11	.24	.49	.67	.80									
Denver, Colo.	25			1.49															29		
Des Moines, Iowa.	10	2:05 p. m.	3:57 p. m.	0.66	2:27 p. m.	2:39 p. m.	.04	.16	.50	.53											
Detroit, Mich.	16	8:40 p. m.	D.N. p. m.	0.60	9:02 p. m.	9:22 p. m.	.01	.08	.20	.33	.36	.48	.53								
Devils Lake, N. Dak.	7			0.34															28		
Dodge City, Kans.	25	D.N. a. m.	1:50 p. m.	2.05	10:57 a. m.	11:54 a. m.	.04	.06	.19	.23	.31	.36	.45	.54	.62	.74	.87	1.02	1.16		
Dubuque, Iowa.	10	9:10 a. m.	11:35 a. m.	0.71	9:52 a. m.	10:13 a. m.	.03	.10	.44	.53	.58	.62									
Do.....	25-26	2:34 p. m.	9:00 a. m.	4.79	1:14 a. m.	3:12 a. m.	1.86	.08	.11	.23	.38	.51	.67	.85							
Duluth, Minn.	24-25			0.92															20		
Eastport, Me.	21-22			0.50															33		
Elkins, W. Va.	19	D.N. a. m.	8:30 a. m.	1.27	12:29 a. m.	12:51 a. m.	.01	.30	.36	.40	.79	.84									
El Paso, Tex.	3-4			0.83															75		
Erie, Pa.	13	4:03 a. m.	6:45 a. m.	0.50	5:39 a. m.	5:59 a. m.	.09	.18	.32												
Escanaba, Mich.	14			0.32															24		
Eureka, Cal.	26			0.05															03		
Evansville, Ind.	18	2:35 p. m.	3:00 p. m.	0.33	2:46 p. m.	2:55 p. m.	.07	.13	.31												
Fort Smith, Ark.	20	7:43 a. m.	12:06 p. m.	0.82	5:51 a. m.	8:04 a. m.	.01	.10	.29	.42											
Fort Wayne, Ind.	14			0.40															40		
Fort Worth, Tex.	15			0.66															39		
Fresno, Cal.	1			T.														T.			
Galveston, Tex.	18			0.39														30			
Grand Haven, Mich.	10	11:46 a. m.	1:45 p. m.	1.72	11:51 a. m.	12:19 p. m.	T.	.16	.41	.60	.71	.82	.89	.95							
Do.....	12	9:50 p. m.	D.N. p. m.	1.23	10:52 p. m.	11:22 p. m.	.15	.16	.35	.62	.81	.90	1.02						18		
Grand Junction, Colo.	25			0.81																	
Grand Rapids, Mich.	7-8	6:30 p. m.	D.N. a. m.	0.82	10:45 p. m.	10:58 p. m.	.11	.24	.46	.51											
Green Bay, Wis.	10	11:58 a. m.	2:02 p. m.	0.88	9:10 a. m.	9:24 a. m.	.02	.48	.89	1.07	1.10	1.11	1.12	1.13	1.15	1.21	1.28	1.39	1.64	1.83	
Hannibal, Mo.	10-11	9:55 p. m.	7:10 a. m.	1.79	12:03 a. m.	12:22 a. m.	.63	.10	.34	.64	.81										
Harrisburg, Pa.	18	6:55 a. m.	6:55 a. m.	0.75	4:26 a. m.	4:49 a. m.	.11	.36	.51	.59											
Hartford, Conn.	21	5:02 p. m.	7:32 p. m.	1.39	5:07 p. m.	5:32 p. m.	.01	.18	.47	.87	1.17	1.23									
Hatteras, N. C.	21	3:30 a. m.	6:30 a. m.	0.62	5:43 a. m.	6:03 a. m.	.09	.10	.23	.36	.50										
Hayre, Mont.	9			0.58															25		
Helena, Mont.	1			0.39															23		
Houghton, Mich.	13-14	5:25 p. m.	7:30 a. m.	0.94	10:59 p. m.	11:11 p. m.	.12	.12	.41	.50											
Houston, Tex.	15	12:43 p. m.	1:12 p. m.	0.43	12:48 p. m.	1:04 p. m.	.02	.22	.26	.32	.41										
Huron, S. Dak.	11-14			1.01															19		
Independence, Cal.	25			0.01															01		
Indianapolis, Ind.	4	4:35 p. m.	6:07 p. m.	0.80	5:28 p. m.	5:53 p. m.	.02	.14	.36	.50	.64	.77									
Iola, Kans.	6	9:05 a. m.	11:25 a. m.	0.77	9:21 a. m.	9:51 a. m.	.01	.18	.37	.45	.51	.61	.66								
Jacksonville, Fla.	14	4:00 a. m.	7:15 a. m.	0.75	8:33 p. m.	9:08 p. m.	.08	.13	.21	.30	.51	.81	1.02								
Jacksonville, Fla.	22	2:00 p. m.	4:15 p. m.	0.73	2:12 p. m.	2:30 p. m.	.02	.14	.36	.47	.52										
Jacksonville, Fla.	23-24	9:55 p. m.	4:00 a. m.	1.92	11:02 p. m.	11:29 p. m.	.08	.06	.12	.18	.31	.39	.49	.67	.87	1.05	1.14				
Jacksonville, Fla.	28-29	6:00 p. m.	D.N. a. m.	0.42	9:32 p. m.	10:29 p. m.	.21	.15	.17	.20	.48	.71	.78	.96	1.05						

\* Self-register not working.

Oct. I.

TABLE II.—Accumulated amounts of precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.80 in 1 hour, during September, 1915, at all stations furnished with self-registering gages—Continued.

Stations.	Date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive began.	Depths of precipitation (in inches) during periods of time indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Kalispell, Mont.	8-9			0.54																	
Kansas City, Mo.	8	4:05 p.m.	6:20 p.m.	0.81	4:22 p.m.	4:40 p.m.	0.04	0.12	0.28	0.55	0.66								0.21		
Keokuk, Iowa.	10	1:03 p.m.	1:43 p.m.	0.52	1:24 p.m.	1:37 p.m.	T.	.31	.47	.51											
Key West, Fla.	11	3:45 a.m.	8:45 p.m.	1.84	7:03 p.m.	8:23 p.m.	.00	.10	.23	.39	.49	0.57	0.65	0.79	1.08	1.17	1.27	1.47	1.79		
Knoxville, Tenn.	15	4:25 p.m.	D. N. p.m.	1.16	3:50 a.m.	4:26 a.m.	.01	.05	.23	.30	.33	.40	.45	.58	.61	.69	.71	.74	.89	.91	.93
La Crosse, Wis.	12	7:42 p.m.	D. N. p.m.	0.94	7:49 p.m.	8:26 p.m.	.01	.11	.34	.50	.53	.56	.76	.89	.93						
Lander, Wyo.	2-3																				
Lansing, Mich.	12	5:30 a.m.	8:10 a.m.	1.62	5:48 a.m.	6:15 a.m.	.02	.03	.15	.20	.29	.52	.58								.30
Lexington, Ky.	30																				.13
Lincoln, Nebr.	17	6:45 p.m.	10:10 p.m.	1.64	7:08 p.m.	7:25 p.m.	.01	.13	.28	.47	.60	.76									.27
Little Rock, Ark.	28																				.43
Los Angeles, Cal.	10																				
Louisville, Ky.	30																				
Ludington, Mich.	8	7:06 p.m.	9:30 p.m.	1.46	8:02 p.m.	8:32 p.m.	.40	.13	.14	.30	.49	.75	.89								.30
Lynchburg, Va.	15-16	D. N. p.m.	11:10 a.m.	1.61	5:04 a.m.	5:36 a.m.	.34	.10	.24	.31	.41	.45	.53	.57							
Macon, Ga.	29-31	9:45 p.m.	10:50 p.m.	0.51	9:57 p.m.	10:04 p.m.	.02	.32	.38												.28
Madison, Wis.	10	8:12 a.m.	11:35 a.m.	1.64	10:49 a.m.	11:16 a.m.	.57	.13	.45	.62	.88	1.01	1.03								
Marquette, Mich.	13	12:42 p.m.	4:57 p.m.	0.89	3:14 p.m.	3:26 p.m.	.27	.22	.42	.50											
Memphis, Tenn.	17																				.13
Meridian, Miss.	29-30	5:15 p.m.	3:44 p.m.	6.83	10:15 p.m.	1:55 a.m.	1.40	2.29	2.36	2.43	2.48	2.54	2.57	2.63	2.66	2.62	2.65				
Miami, Fla.	15	2:33 p.m.	3:20 p.m.	0.48	2:47 p.m.	2:58 p.m.	5.50	.07	.21	.42	.45	.51	.65								
Milwaukee, Wis.	10	10:25 a.m.	2:30 p.m.	0.98	10:30 a.m.	11:00 a.m.	0.02	.06	.15	.29	.40	.55	.65								.55
Mobile, Ala.	14																				.65
Modena, Utah.	3																				.43
Montgomery, Ala.	4	5:20 a.m.	8:00 p.m.	3.50	1:54 p.m.	2:38 p.m.	1.22	.05	.11	.16	.22	.31	.36	.46	.60	.65					
Moorhead, Minn.	11																				.13
Mount Tamalpais, Cal.	21																				.30
Nantucket, Mass.	28	2:43 p.m.	3:35 p.m.	0.54	2:45 p.m.	2:59 p.m.	.01	.17	.35	.47											
Nashville, Tenn.	21	7:00 a.m.	12:25 p.m.	0.81	11:40 a.m.	11:55 a.m.	.31	.28	.45												
New Haven, Conn.																					
New Orleans, La.	29	2:35 a.m.	11:30 p.m.	8.20	10:50 a.m.	1:26 p.m.	2.02	2.40	2.48	2.52	2.54	2.59	2.67	2.81	2.97	3.09	3.16				
New York, N. Y.	17	4:48 p.m.	5:11 p.m.	0.46	4:34 p.m.	5:10 p.m.	6.80	.06	.17	.30	.42	.66	.90	1.16	1.21						
Norfolk, Va.	19	1:58 p.m.	2:35 p.m.	0.50	2:01 p.m.	2:09 p.m.	T.	.23	.38	.45											
Northfield, Vt.	19																				.08
North Head, Wash.	7																				
North Platte, Nebr.	5	6:48 p.m.	8:55 p.m.	0.49	8:08 p.m.	8:23 p.m.	.08	.20	.29	.37											.55
Oklahoma, Okla.	14-15																				.24
Omaha, Nebr.	17																				
Oswego, N. Y.	8	2:00 p.m.	2:50 p.m.	1.13	2:13 p.m.	2:33 p.m.	T.	.18	.72	1.05	1.12										
Palestine, Tex.	15																				.31
Parkersburg, W. Va.	18	9:50 p.m.	11:04 p.m.	1.16	10:08 p.m.	10:36 p.m.	.04	.17	.20	.31	.60	.71	1.01	1.08							
Pensacola, Fla.	21	1:35 p.m.	3:15 p.m.	0.81	2:08 p.m.	2:33 p.m.	.08	.16	.27	.40	.51	.59	.65								
Peoria, Ill.	10	6:49 p.m.	11:00 p.m.	0.94	6:49 p.m.	7:09 p.m.	.00	.18	.49	.55	.63										
Philadelphia, Pa.	21																				.16
Phoenix, Ariz.	2																				.07
Pierre, S. Dak.	13-14																				*
Pittsburgh, Pa.	18																				.46
Pocatello, Idaho.	25-26																				.35
Point Reyes Light, Cal.	†																				
Port Huron, Mich.	16																				
Portland, Me.	13																				
Portland, Oreg.	10																				
Providence, R. I.	21																				
Pueblo, Colo.	25	3:37 p.m.	5:10 p.m.	0.98	4:11 p.m.	4:31 p.m.	.01	.44	.80	.90	.95										
Raleigh, N. C.	4	8:07 p.m.	8:38 p.m.	0.44	8:10 p.m.	8:26 p.m.	T.	.18	.37	.43	.44										
Rapid City, S. Dak.	26																				.15
Reading, Pa.	21	4:10 a.m.	10:15 a.m.	1.09	7:34 a.m.	7:54 a.m.	.35	.29	.43	.51	.62										
Red Bluff, Cal.	†																				
Reno, Nev.	1																				
Richmond, Va.	18	6:25 p.m.	7:07 p.m.	0.63	6:34 p.m.	6:47 p.m.	.02	.13	.51	.59											
Rochester, N. Y.	13																				
Roseburg, Oreg.	10																				
Roswell, N. Mex.	29	8:32 p.m.	10:48 p.m.	0.56	8:38 p.m.	8:46 p.m.	.02	.40	.46												
Sacramento, Cal.	24																				
Saginaw, Mich.	12-13																				
St. Joseph, Mo.	10	7:35 p.m.	8:15 p.m.	0.62	7:37 p.m.	7:59 p.m.	.01	.27	.38	.50	.57	.80									
St. Louis, Mo.	16	11:35 a.m.	12:20 p.m.	0.43	11:38 a.m.	11:46 a.m.	.01	.29	.38	.59											
St. Paul, Minn.	14	12:30 a.m.	4:13 a.m.	1.06	2:15 a.m.	2:47 a.m.	.10	.06	.19	.21	.26	.71	.78	.80							
Salt Lake City, Utah.	2-3																				
San Antonio, Tex.	16	8:50 a.m.	10:15 a.m.	0.58	9:00 a.m.	9:18 a.m.	.03	.06	.18	.39	.45										
San Diego, Cal.	3																				
Sand Key, Fla.	3	4:05 p.m.	8:20 p.m.	1.64	5:12 p.m.	5:25 p.m.	.32	.10	.43	.59											
Sandusky, Ohio.	18	12:35 p.m.	4:00 p.m.	1.70	1:47 p.m.	2:38 p.m.	.06	.07	.35	.66	.71	.73	.92	1.01	1.22	1.32	1.44				
San Francisco, Cal.																					
San Jose, Cal.	†																				
San Luis Obispo, Cal.	†																				

\* Self-register not working.

† No precipitation occurred during the month.

1 October 1.

TABLE II.—Accumulated amounts of precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.80 in 1 hour, during September, 1915, at all stations furnished with self-registering gages—Continued.

Stations.	Date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Santa Fe, N. Mex.	3-4			0.74																0.27	
Sault Ste. Marie, Mich.	24-26			1.60																.27	
Savannah, Ga.	4-5	9:40 p.m.	1:00 a.m.	0.93	12:14 a.m.	12:36 a.m.	0.39	0.08	0.14	0.26	0.48	0.53									
Scranton, Pa.	18-19	8:50 p.m.	7:20 a.m.	1.50	5:38 a.m.	6:09 a.m.	.04	.09	.23	.49	.66	.77	1.07	1.22	1.30	1.35				.59	
Seattle, Wash.	8			0.17																.13	
Sheridan, Wyo.	5	12:30 a.m.	6:55 a.m.	1.16	1:15 a.m.	1:39 a.m.	.19	.11	.27	.38	.45										
Shreveport, La.	20-21	6:30 p.m.	D. N. a.m.	1.61	10:07 p.m.	11:35 p.m.	.15	.14	.23	.23	.24	.29	.34	.39	.48	.53	0.60	.79	1.07	1.21	
Sioux City, Iowa	12-14			0.83																.37	
Spokane, Wash.	23			0.17																.10	
Springfield, Ill.	14-15	D. N. p.m.	D. N. a.m.	0.80	2:01 a.m.	2:14 a.m.	.17	.23	.40	.44											
Springfield, Mo.	20	D. N. a.m.	8:15 a.m.	0.84	5:45 a.m.	6:10 a.m.	.12	.07	.16	.26	.36	.50									
Syracuse, N. Y.	13	D. N. o.m.	D. N. a.m.	1.40	3:09 a.m.	3:44 a.m.	.29	.17	.30	.44	.56	.60	.70	.78							
Tacoma, Wash.	11-12	9:14 p.m.	D. N. a.m.	0.46	9:59 p.m.	10:18 p.m.	.03	.06	.21	.35	.39										
Tampa, Fla.	6			0.47																.41	
Tatooch Island, Wash.	1			0.70																.30	
Taylor, Tex.	15	10:03 a.m.	1:32 p.m.	1.40	11:13 a.m.	11:40 a.m.	.68	.09	.20	.24	.33	.50	.54								
Terre Haute, Ind.	16	3:10 p.m.	3:50 p.m.	0.70	3:10 p.m.	3:23 p.m.	.00	.16	.54	.64											
Thomasville, Ga.	17	10:04 a.m.	1:58 p.m.	1.60	11:27 a.m.	12:19 p.m.	.05	.29	.47	.69	.87	.95	.97	1.00	1.01	1.11	1.30	1.41			
Toledo, Ohio.	23	4:10 p.m.	5:35 p.m.	1.01	4:16 p.m.	4:37 p.m.	.01	.08	.35	.76	.93	.97									
Tonopah, Nev.	24	11:45 a.m.	8:20 p.m.	1.07	5:24 p.m.	6:05 p.m.	.63	.07	.13	.23	.39	.45	.52	.62	.67	.70				.24	
Topeka, Kans.	25	4:00 a.m.	6:55 a.m.	0.92	6:14 a.m.	6:39 a.m.	.39	.10	.20	.31	.38	.50									
Valentine, Nebr.	13	12:25 a.m.	1:50 a.m.	0.43	12:42 a.m.	12:53 a.m.	T.	.18	.33	.40										.41	
Vicksburg, Miss.	17			0.43																	
Walla Walla, Wash.	11-12			0.67																.17	
Washington, D. C.	6			0.61																.34	
Wichita, Kans.	19-20	10:15 p.m.	D. N. a.m.	0.92	11:42 p.m.	12:16 a.m.	.02	.14	.25	.35	.54	.65	.72	.79							
Williston, N. Dak.	24			0.39																.31	
Wilmington, N. C.	21	3:13 p.m.	4:05 p.m.	0.64	3:16 p.m.	3:36 p.m.	.01	.06	.27	.42	.55										
Winnemucca, Nev.	25			0.87																.30	
Wytheville, Va.	29	7:30 a.m.	10:55 a.m.	1.00	8:34 a.m.	8:51 a.m.	.10	.13	.28	.43	.58	.66	.75	.81							
Yankton, S. Dak.	13-14	9:40 p.m.	2:30 a.m.	0.98	10:45 p.m.	10:58 p.m.	.09	.20	.34	.39										*	
Yellowstone Park, Wyo.	25-27			0.52																	

\* Self-register not working.

† Record partly estimated.

‡ No precipitation occurred during month.

\* Oct. 1.

TABLE III.—Data furnished by the Canadian Meteorological Service, September, 1915.

Stations.	Pressure.			Temperature.						Precipitation.		
	Station reduced to mean of 24 hours.	Sea level reduced to mean of 24 hours.	Departure from normal.	Mean max. + mean min. + 2.	Departure from normal.	Mean maximum.	Mean minimum.	Highest.	Lowest.	Total.	Departure from normal.	Total snowfall.
St. Johns, N. F.	29.68	29.82	-0.15	52.8	-1.2	59.3	46.3	78	34	3.94	+0.23	
Sydney, C. B. I.	29.86	29.90	-.11	57.5	+1.0	66.7	48.3	83	36	1.92	-1.36	
Halifax, N. S.	29.86	29.96	-.08	59.4	+1.8	69.1	49.7	85	33	2.58	-1.13	
Yarmouth, N. S.	29.91	29.98	-.07	57.4	+1.3	64.1	50.7	76	36	1.18	-2.27	
Charlottetown, P. E. I.	29.87	29.91	-.10	58.0	+0.7	65.6	50.4	80	38	3.08	-0.32	
Chatham, N. B.	29.90	29.92	-.08	57.3	+1.9	67.4	47.3	88	32	6.17	+3.46	1.2
Father Point, Que.	29.92	29.94	-.04	50.2	-0.2	57.4	43.1	70	32	4.82	+1.64	2.0
Quebec, Que.	29.68	30.00	-.01	57.0	+1.9	65.5	48.6	84	32	5.23	+1.61	
Montreal, Que.	29.82	30.02	-.02	62.0	+3.6	70.6	53.3	88	39	2.57	-0.73	
Stonecliffe, Ont.	29.48	30.08	+.05	58.0	+2.3	68.8	47.3	89	30	2.77	-0.51	
Ottawa, Ont.	29.78	30.10	+.06	60.8	+3.4	70.1	51.5	88	36	3.21	+0.52	
Kingston, Ont.	29.76	30.07	+.03	62.7	+2.7	71.5	54.0	81	32	1.49	-1.31	
Toronto, Ont.	29.68	30.03	-.03	63.3	+4.3	72.9	53.7	87	31	4.24	+0.99	
White River, Ont.	28.69	30.01	-.03	50.4	+0.1	63.4	37.5	83	20	4.15	+1.38	T.
Port Stanley, Ont.	29.44	30.08	+.02	61.8	+2.3	70.3	53.3	81	33	2.90	+0.17	
Southampton, Ont.	29.37			60.0	+2.5	69.1	51.0	87	33	3.18	+0.24	
Parry Sound, Ont.	29.36	30.04	+.01	59.4	+3.4	69.6	49.2	87	28	3.83	+0.16	
Port Arthur, Ont.	29.30	30.01	+.03	53.3	+1.1	62.2	44.4	84	29	4.13	+0.65	
Winnipeg, Man.	29.12	29.95	+.01	54.7	+2.2	64.3	45.1	92	32	4.89	+2.86	
Minnedosa, Man.	28.14	29.95	+.01	49.2	-1.3	59.5	38.6	88	22	2.63	+0.67	
Qu'Appelle, Sask.	27.68	29.92	-.00	47.8	-3.3	57.2	38.3	81	26	4.43	+3.10	4.3
Medicine Hat, Alberta.	27.64	29.91	-.01	54.6	-0.4	65.9	43.3	84	28	2.17	+0.99	1.9
Swift Current, Sask.	27.36	29.92	-.00	49.9	-3.2	61.7	38.2	85	24	1.27	+0.05	3.0
Calgary, Alberta.	26.32	29.84	-.08	48.8	-1.0	62.1	35.6	82	24	2.33	+0.97	1.0
Banff, Alberta.	25.37	29.93	-.00	45.9	+0.1	56.8	35.1	73	18	2.69	+1.02	3.0
Edmonton, Alberta.	27.63	29.92	+.02	48.1	-1.2	59.5	36.7	77	20	0.97	-0.36	0.4
Prince Albert, Sask.	28.37	29.93	+.03	45.7	-2.7	53.7	37.7	74	14	1.16	-0.12	T.
Battleford, Sask.	28.23	29.96	+.06	49.0	-2.8	61.5	36.5	79	14	0.67	-0.58	
Kamloops, B. C.	28.73	30.01	+.04	56.8	-0.6	67.6	45.9	84	36	0.61	-0.24	
Victoria, B. C.	28.75	30.00	-.01	56.5	+1.7	63.5	49.6	73	45	0.80	-1.36	
Barkerville, B. C.												
Hamilton, Bermuda.	28.76	29.92	-.15	75.4	-2.0	80.3	70.5	85	66	16.30	+9.79	